

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1 – 17 Canceled

18. (new) A plastic compound, comprising:

at least one polymer;

at least one organic starting compound having a decomposition temperature T_z and being formed of at least one ceramic material comprising a glass and/or a starting material of glass; and

at least one glass material for forming a glass ceramic with the aid of said at least one ceramic material, the glass having a glass transition point T_g that substantially corresponds to the decomposition temperature T_z of the organic starting compound.

19. (new) The plastic compound according to claim 18, wherein the organic starting compound is a polyorganosiloxane.

20. (new) The plastic compound according to claim 18 or claim 19, wherein the glass transition point T_g of the glass lies below 500°C.

21. (new) The plastic compound according to claim 18, wherein the glass material comprises at least one of bismuth oxide, boron oxide, silicon dioxide, and zinc oxide.

22. (new) The plastic compound according to claim 18, wherein at least one of the ceramic material and the glass ceramic with the ceramic material comprises at

least one element selected from the group Al, B, Ba, Bi, Ca, Mg, N, O, Si, Ti, Zn and/or Zr.

23. (new) The plastic compound according to claim 18, wherein at least one of the volume fraction of the glass in the plastic compound and a volume fraction of the starting material of the glass in the plastic mass is selected from at least one of the range of 1 vol.% to 30 vol.% and the range of 5 vol.% to 15 vol.%.
24. (new) The plastic compound according to claim 18, wherein at least one of the polymer and the organic starting compound of the ceramic material comprises a halogen fraction of less than 1 mol.%.
25. (new) The plastic compound according to claim 18, wherein the glass comprises at least one of an alkali ion fraction, a lead ion fraction, and a phosphate ion fraction of respectively less than 1 mol.%.
26. (new) The plastic compound according to claim 18, wherein at least one inorganic starting material of the ceramic material is present.
27. (new) The plastic compound according to claim 26, wherein the inorganic starting material is aluminum oxide.
28. (new) The plastic compound according to claim 26, wherein at least one of the inorganic starting material and the glass material comprises a powder with powder particles having an average powder particle size D_{50} of a selected one of less than 3 μm and less than 1.5 μm .
29. (new) A product comprising:

at least one component; and

a plastic compound for providing at least one of chemical insulation and electrical insulation for the at least one component, the plastic compound including at least

one polymer, at least one organic starting compound having a decomposition temperature T_z and being formed of at least one ceramic material comprising a glass and/or a starting material of glass, and at least one glass material for forming a glass ceramic with the aid of said at least one ceramic material, the glass having a glass transition point T_g that substantially corresponds to the decomposition temperature T_z of the organic starting compound.

30. (new) The product according to claim 29, wherein the at least one component of the product has a cladding comprising the plastic compound.
31. (new) The product according to claim 30, wherein the cladding of the at least one component is a coating of the component.
32. (new) The product according to claim 30, wherein the product is a cable, the at least one component is a cable core of the cable, and the cladding comprising the plastic compound is a cable sheath of the cable.
33. (new) The product according to claim 29, wherein the product is a household appliance and the at least one component is an electrical component of the household appliance.
34. (new) A product made by the process of:

providing at least one component; and

creating a plastic compound for providing at least one of chemical insulation and electrical insulation for the at least one component, creating the plastic compound including providing at least one polymer and at least one organic starting compound having a decomposition temperature T_z and being formed of at least one ceramic material comprising a glass and/or a starting material of glass and forming a glass ceramic with the aid of said at least one ceramic material via thermal decomposition of the plastic compound, the glass ceramic having a glass transition point T_g that substantially corresponds to the decomposition temperature T_z of the organic starting compound.